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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/216,004	12/17/1998	WING C. CHAU	81862.P106	1360

7590 01/18/2006

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EXAMINER

BOAKYE, ALEXANDER O

ART UNIT	PAPER NUMBER
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2667

DATE MAILED: 01/18/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/216,004

Applicant(s)

CHAU ET AL.

Examiner

ALEXANDER BOAKYE

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 October 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 2-5, 7-11, 13-15, 17-23, 25-34, 36-38 and 40-51 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 7-11, 9-11, 17-23, 25-34 and 40-51 is/are allowed.
- 6) ☒ Claim(s) 2-5, 13-15 and 36-38 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- 1) ☐ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 2, 3, 4, 13, 14, 15, 36, 37 and 38 are rejected under 35 U.S.C. 102(e) as being anticipated by Chen et al. (US Patent # 6,611,531).

Regarding claim 2, Chen teaches a system, comprising: a digital signal processing (DSP) resource manager configured to ensure DSP availability for each of a number of channels as individual ones of the channels are activated, wherein various numbers of the channels are grouped together in a carrier system (column 21, lines 45-48 ; column 11, lines 16-35).

Regarding claim claims 3 and 4, Chen teaches that the carrier system is comprises of T1 lines (column 19, lines 45-49).

Regarding claim 5, Chen teaches that the channels comprise voice channels (2102 of Fig. 21).

Regarding claim 13, Chen teaches a method, comprising: a digital signal processing (DSP) resource manager configured to ensure DSP availability for each of a

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number of channels as individual ones of the channels are activated, wherein various numbers of the channels are grouped together in a carrier system (column 21, lines 45-48; column 11, lines 16-35).

Regarding claims 14 and 15, Chen teaches that the carrier system is comprised of T1 lines (column 19, lines 45-49).

Regarding claim 36, Chen teaches an apparatus comprising: means for managing a digital signal processing (DSP) system to ensure DSP availability for each of a number of channels as individual ones of the channels are activated (column 21, lines 45-48); and means for grouping various number of the channels together in a carrier system (column 11, lines 16-35).

Regarding claims 37 and 38, Chen teaches that the carrier system is comprised of T1 lines (column 19, lines 45-49).

Allowable Subject Matter

2. Claims 7, 8, 45-47, 9-11, 17-21, 48-51, 22, 23, 25-34, and 40-44 allowable

The following is a statement of reasons for the indication of allowable subject matter:

As to claims 7, 8 and 45-47, the prior art of record does not teach wherein the DSP resources are assigned to DSP groups according to information compression requests associated with the activated channels. As to claims 9-11, the prior art of record does not teach wherein the DSP resource manager is configured to ensure DSP availability

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for each of the channels by assigning a sufficient number of DSP resources to each of a number of DSP groups to process information transmitted within all activated channels.

As to claims 17-21 and 48-51, the prior art of record does not teach wherein allocation of the DSP resources to DSP groups is performed by a DSP resource manager according to information compression requests associated with the activated channels. As to claims 22, 23, 25-34, the prior art of record does not teach a DSP resource manager configured to allocate the DSP resources among DSP resource groups according to the requirements of a plurality of channels utilizing the DSP resources, allocating sufficient DSP resources to one of the DSP resource groups to process all of the plurality of channels. As to claims 40-44, the prior art of record does not teach wherein allocation of the DSP resources to DSP groups is performed by a DSP resource manager according to information compression requests associated with the activated channels.

Response to Arguments

3. Applicant's arguments with respect to claims 2-5, 7-11, 13-15, 17-23, 25-34, 36-38, 40-51 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Boakye whose telephone number is (571) 272-3183. The examiner can normally be reached on M-F from 8:30am to 6:00pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham, can be reached on (571) 272-3179. The fax number is (571) 272-3183. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Electronic Business Center numbers 866-217-9197 and 703-305-3028.

Alexander Boakye

Patent Examiner.

AB

01/09/06


CHI PHAM
SUPERVISORY PATENT EXAMINER
1/17/06